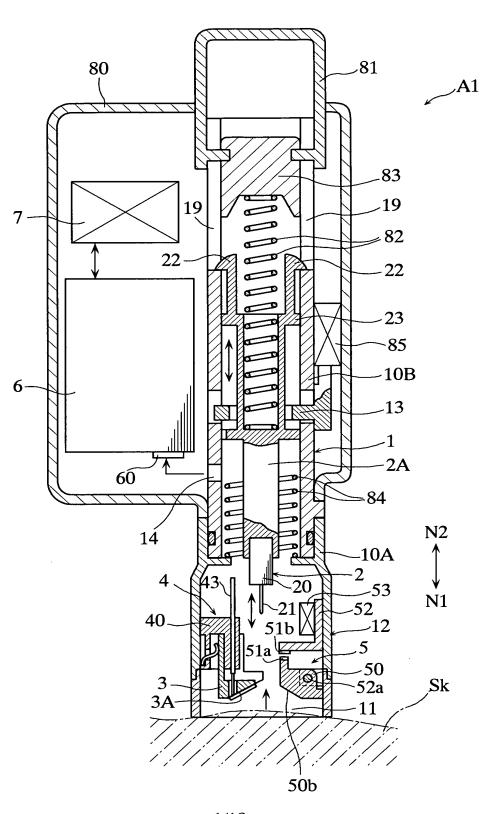
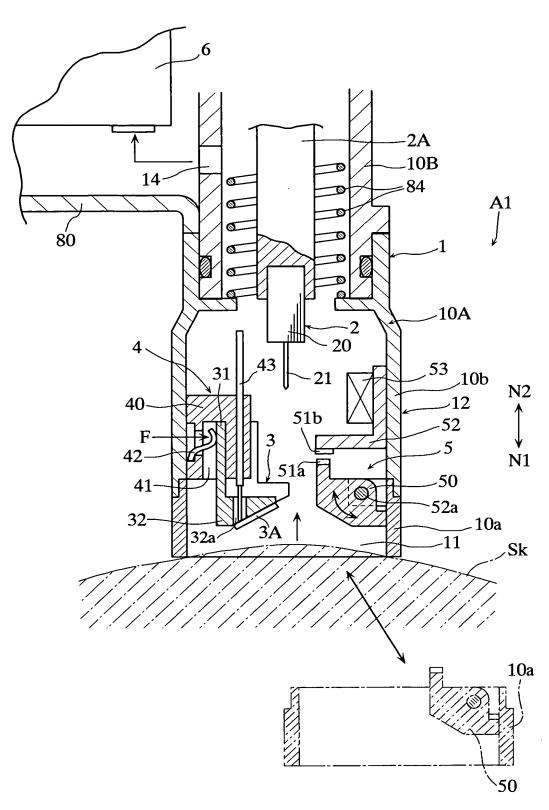
Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 1 of 18

FIG.1



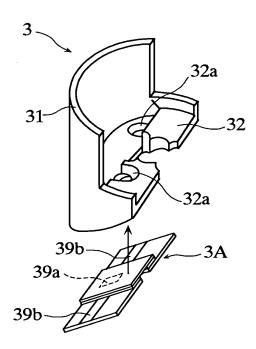
Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 2 of 18

FIG.2



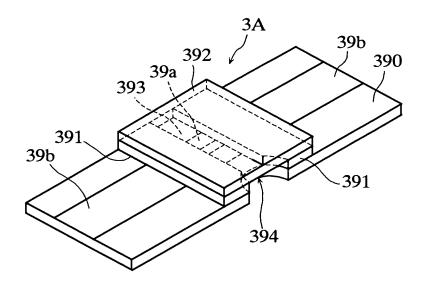
Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: "NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 3 of 18

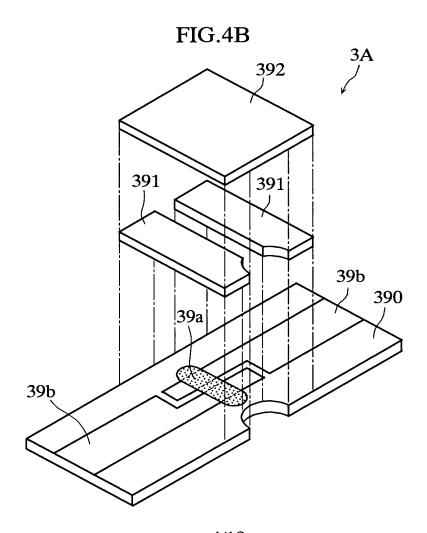
FIG.3



10/538813

FIG.4A

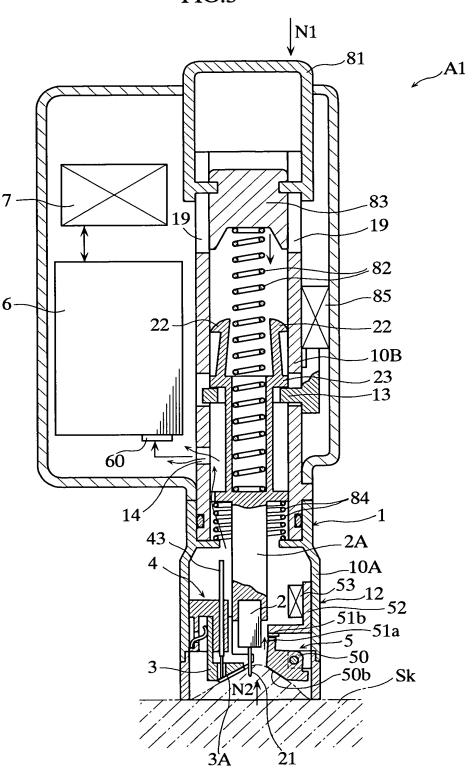






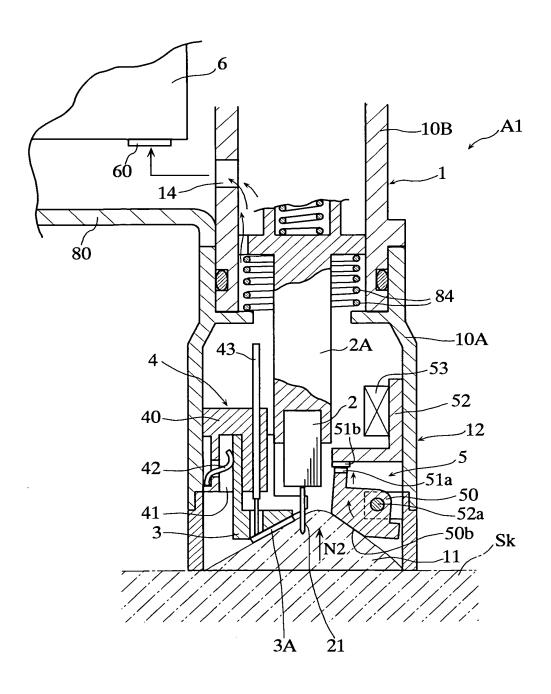
Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 5 of 18

FIG.5



Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 6 of 18

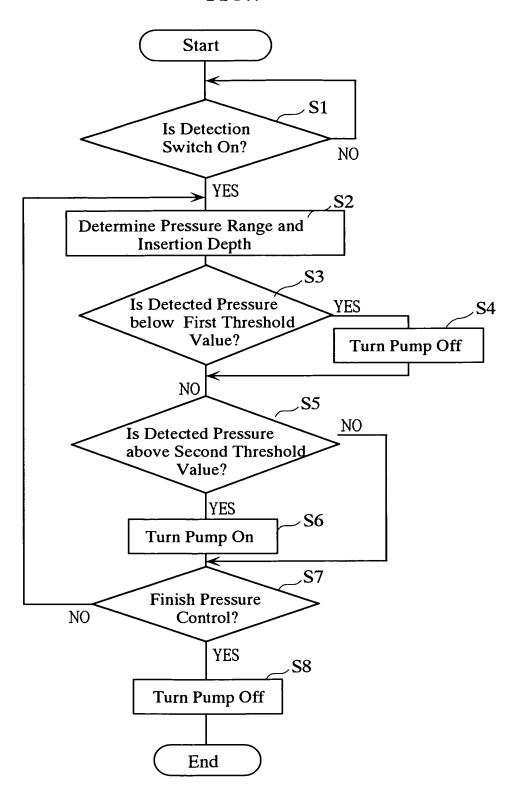
FIG.6



Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804

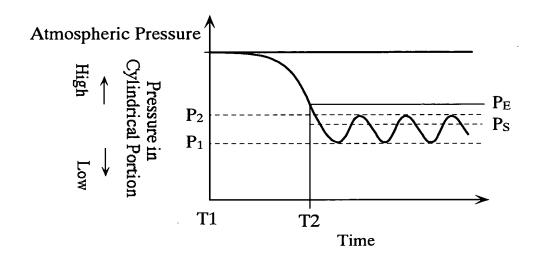
Sheet 7 of 18

FIG.7



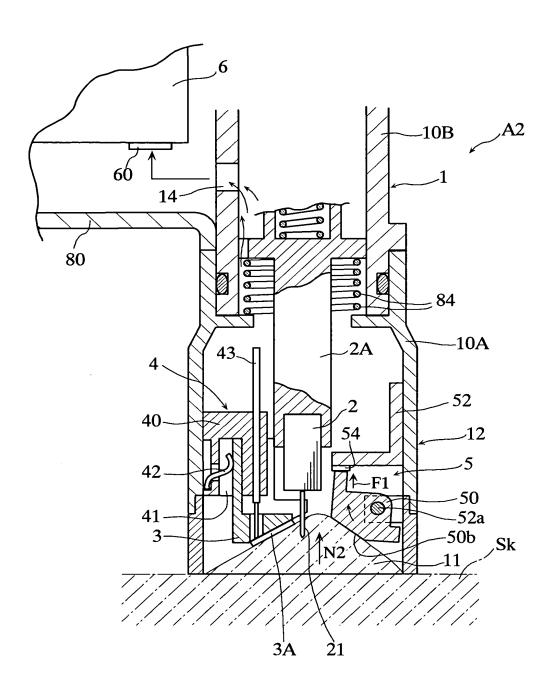
Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 8 of 18

FIG.8



Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 9 of 18

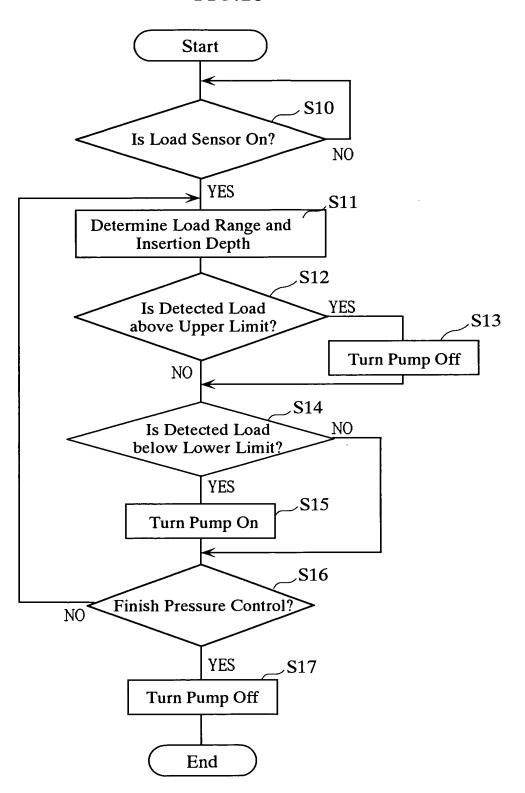
FIG.9



10/538813

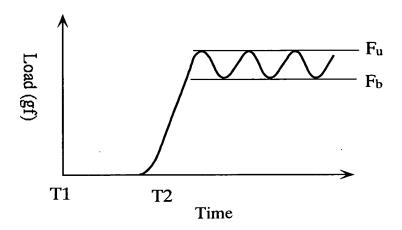
Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 10 of 18

FIG.10



Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 11 of 18

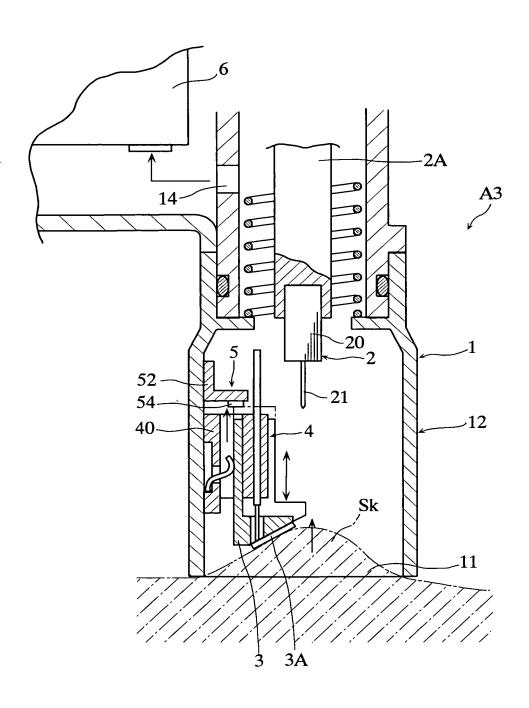
FIG.11



Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 12 of 18

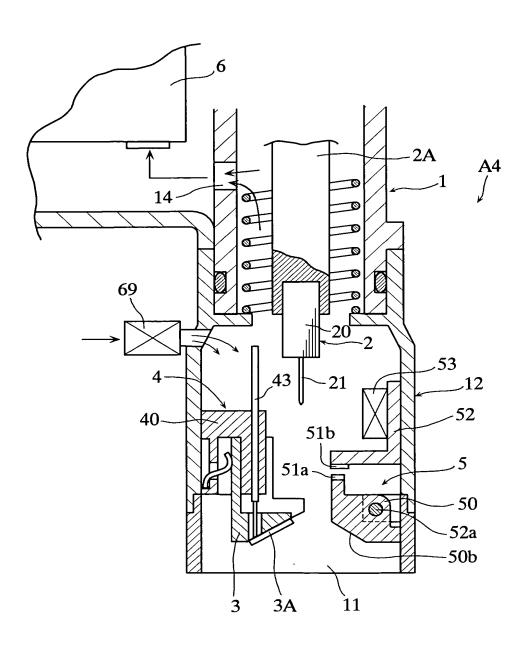
10/538813

FIG.12



Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 13 of 18

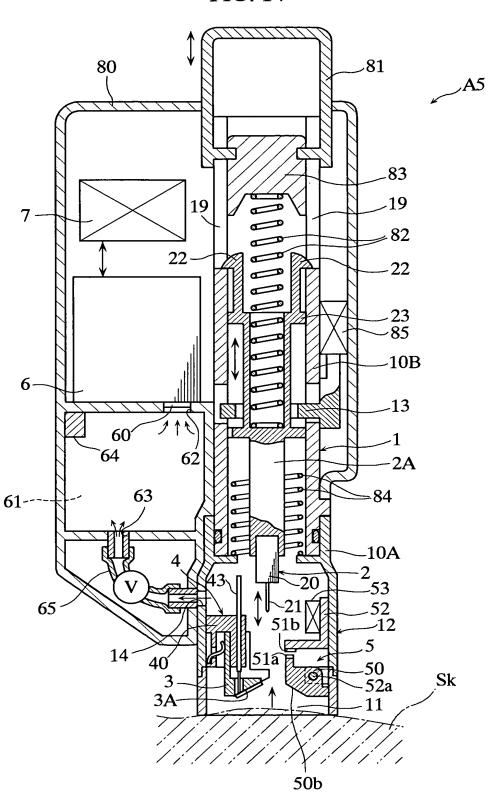
FIG.13



Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 14 of 18

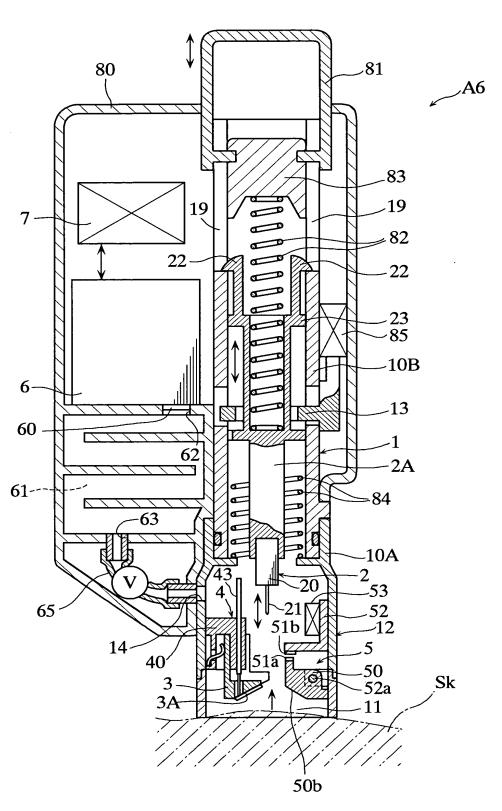
160

FIG. 14



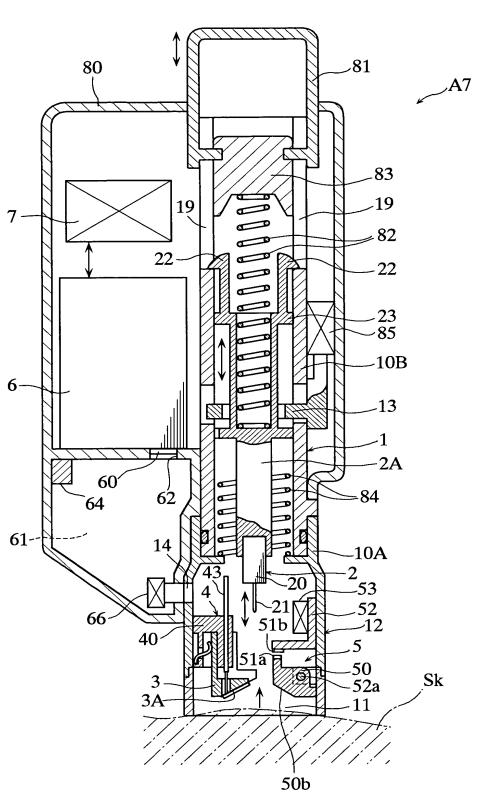
Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 15 of 18

FIG. 15



Inventor: MATSUMOTO et al.
Docket No.: 10921.329USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 16 of 18

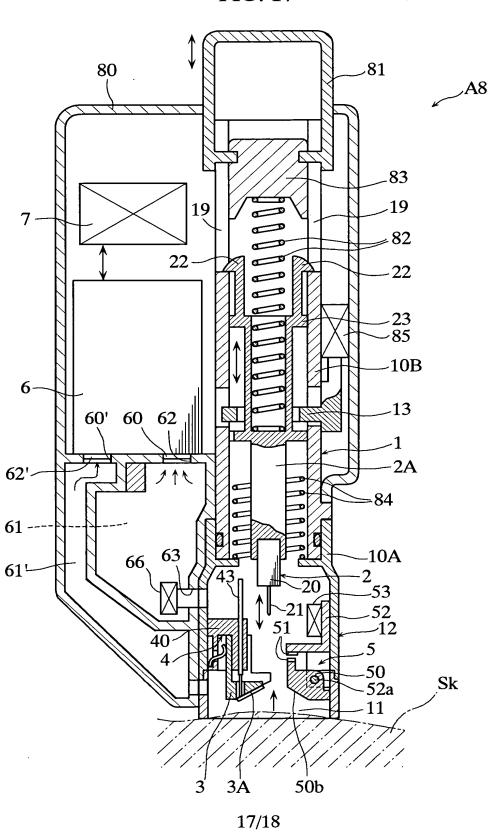
FIG. 16



16/18

Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804 Sheet 17 of 18

FIG. 17



Inventor: MATSUMOTO et al. Docket No.: 10921.329USWO Title: NEEDLE INSERTION DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.455.3804

Sheet 18 of 18

FIG.18A **PRIOR ART**

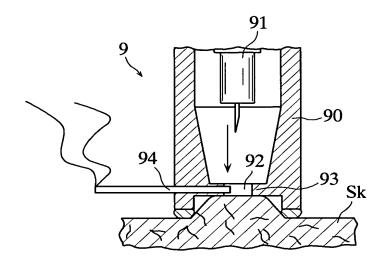


FIG.18B PRIOR ART

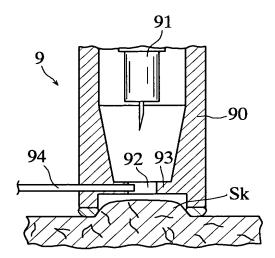


FIG.18C **PRIOR ART**

